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## ENGINEERING STANDARDS UPDATE

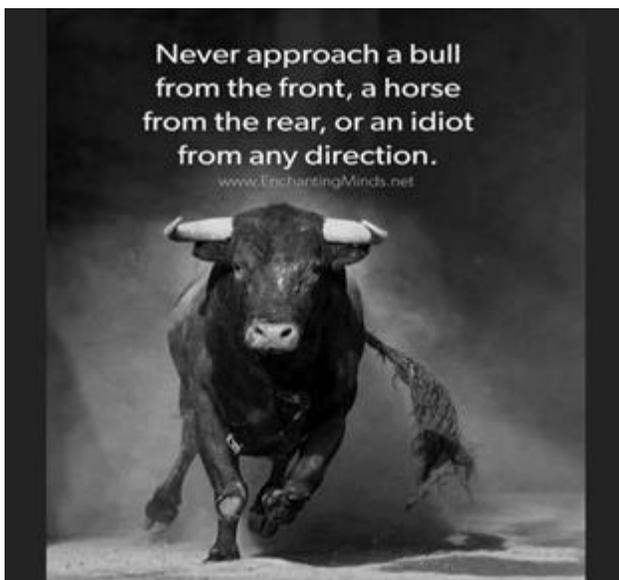
Standards are serious business, but this newsletter isn't.

### Topics this month:

- International Women's Day - March 8, 2021
- Randall Austin Honored by The National Board of Boiler and Pressure Vessel Inspectors
- Training & Qualification
- LANL Standards Issued in Feb
- Engineering Processes News
- DOE Technical Standards Action
- National Standards Action
- When Good Conduct of Engineering Isn't Followed

The LANL Engineering Standards: <http://engstandards.lanl.gov/>

**Note:** This newsletter has hyperlinks all over but the blue/underlined formatting may not show. Hover your cursor where you might expect one.



### INTERNATIONAL WOMEN'S DAY - MARCH 8, 2021

Learn more at the website: <https://www.internationalwomensday.com/>

...and a couple of webpages acknowledging the technical side that you might find interesting:

<https://interestingengineering.com/24-inventions-by-women-you-might-not-be-aware-of> (has some pictures)  
and

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[https://en.wikipedia.org/wiki/List\\_of\\_inventions\\_and\\_discoveries\\_by\\_women](https://en.wikipedia.org/wiki/List_of_inventions_and_discoveries_by_women) (much more comprehensive)

### **RANDALL AUSTIN HONORED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS**

Randy supervises LANL's boiler Owner User Inspection Program (and boiler/pressure vessel repair--"R" Stamp program) as a Federal Inspection Agency under the auspices of NBBI. He's in ES-FE deployed to MSS Maintenance Programs under Shawn Hailey. According to Shawn, he was recently invited to receive lifetime Honorary Membership to the National Board at the General Meeting in Scottsdale, AZ in May—all expenses paid. The Board consists of about 60 members which include Chief Inspectors from each state as applicable, cities, and other jurisdictions. Having a LANL employee involved in this committee is a huge honor and a great opportunity to provide guidance on new policies including design, maintenance, and inspection requirements.

Information on the General Meeting can be found at  
<https://www.nationalboard.org/Index.aspx?pageID=165>

Please congratulate Randy (now Mr. Austin to me) at [rdustin@lanl.gov](mailto:rdustin@lanl.gov), 7-6740!

It helps if you imagine  
auto correct as a tiny  
little elf in your phone  
who's trying so hard  
to be helpful but is in  
fact quite drunk.

### **TRAINING & QUALIFICATION**

**CGD Preparers Course 30727**, March 15, 8:00 am – 4:30 pm.

Required if you perform or approve commercial grade dedication packages for nuclear service per AP-341-703; you must have taken prerequisite Course 30726, CGD Overview, before taking Preparers. POC: Ricky Curry.

**HAZWOPPER Refresher:** If you need this, Stan Hayes set up several sessions in March at Canyon Complex. He or Yolanda Trujillo can provide details if necessary.

**For UTrain Courses: Registering:** Go to [UTrain](#), search on course, select and enroll. Disenroll if you have to bail. AEs can also register; use token (CryptoCard) or contact ES T&Q coordinator Yolanda Trujillo at 664-0118 or [yjtrujillo@lanl.gov](mailto:yjtrujillo@lanl.gov) with Z number. Registrants will receive Webex instructions prior to start.

LANL STANDARDS ISSUED IN FEB

Engineering Standards Manual ESM STD-342-100

ESM-Chapter	Section	Title	Rev.	Date
Chapter 1 - General	200	Attachment 1: CMMS Field Dictionary Ch 1 POC Tobin Oruch	0.1	2/10/2021
Chapter 1 - General	200	Attachment 3: Parameter Templates Ch 1 POC Tobin Oruch	0.1	2/10/2021
Chapter 2 - Fire Protection	D40	<b>Fire Protection. Complete revision</b> ; thanks to POC Keenan Dotson.	6	2/5/2021
Chapter 2 - Fire Protection	Att 1	Adopted Editions of NFPA Fire Protection Codes, Standards, and Recommended Practices	0	2/5/2021
Chapter 2 - Fire Protection	Refs	Requirement Bases document (e.g., 2-0XXX; LANL only)	0	2/5/2021
Chapter 16 – IBC Program	IBC-GEN Att A LBC	<b>LANL Building Code – Revised Int’l Energy Conservation Code to 2018</b> ; other minor changes POC Tobin Oruch	12	2/5/2021
Chapter 16 - IBC Program	IBC-GEN FM01	Preliminary Project Determination Form with [new] Instructions POC Tobin Oruch; thanks to those that helped	5	2/17/2021
Chapter 17 – Pressure Safety	<a href="#">ADMIN-4</a> , Inspection and Testing, R1	<b>Posted: VAR-10429 – Relief Device Settings for Pneumatic Testing</b> <a href="https://www.lanl.gov/orgs/eng/engstandards/esm/pressure_safety/VAR-10429.pdf">https://www.lanl.gov/orgs/eng/engstandards/esm/pressure_safety/VAR-10429.pdf</a> Deletes 1.0.B.6.c: If the first and second requirements above are satisfied then a relief device is not required if the test pressure is not above the MAWP of the piping components. Example: The tubing MAWP is 2199 psig. The pressure testing supply gas has an adequately supplied relief valve set at 200 psig. The design pressure is 100 psig. No additional relief protection is required. Thanks to Ch 17 POC Ari (Ben) Swartz	0	2/11/2021

**STD Drawings and Details** STD-342-400 (POC for Fire Protection details and specs is Todd Smith)

Dwg. #	Sheet	Rev.	Title
ST-D4010-1	All	2	Sprinkler System Riser Detail - <b>[temporarily withdrawn, contact POC (for redlines)]</b>



<https://www.worldplumbing.org/worldplumbingday/>

March 11 is World Plumbing Day.

It is a date that has been fixed on the calendars of the World Plumbing community since its establishment by the WPC in 2010 and is now a fixture [yes, they really wrote that] on the calendars of political and social institutions around the globe.

The international plumbing community, as represented by the Council, has a vital role in promoting the link between good quality plumbing, health, environmental sustainability and, increasingly, economic prosperity.

March 11 is marked by celebrations, competitions, seminars, and activities all around the world. People from within and outside the plumbing fraternity come together to learn, share knowledge, build connections and find opportunities to collaborate to improve the quality of, and access to, fresh water and safe sanitation.

There are now hundreds of annual World Plumbing Day events, promoting the link between good plumbing sanitation and human and environmental health.

**ENGINEERING PROCESSES NEWS**

Per CoE Eng Processes Manager is Sarah Murdock, 667-7788, [sterrill@lanl.gov](mailto:sterrill@lanl.gov):

The following Administrative Procedures have been revised and posted to the COE Administrative Procedures [SharePoint site](#). Always ensure you are working to the latest version of all Engineering Administrative Procedures adopted at your location.

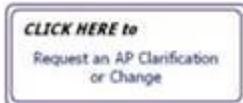
AP-341-405 R5, Identification and Control of Technical Baseline in Operating Facilities	Approved 1/22/2021, effective 2/21/21	Training has been assigned in UTrain for those that were identified as requiring it.	The Word form was posted to the COE AP website now that the rev is effective.
AP-341-720 R0, Engineering Construction Submittals NEW!!!	Issued 2/17/2021 Effective 3/19/2021	Training Course 51676 has been assigned in UTrain for those that were identified as requiring it.	Topic was previously under PM and transferred to CoE

If you have been identified as requiring additional training on an AP you will see an assignment on your UTrain “to do” list.

#### More updates

- LANL is phasing out the use of DRS, so moving forward we will be transitioning to a new document review software application called “Aproove” that is being launched by the Service Innovation - Document Control and Records Management (SI-DCRM) group. Our first COE procedure review using the Aproove tool will be assigned in the next few weeks, and ES will implement the Aproove application for design reviews within the next few months.
- AP-341-704 *Item/Service Quality Verification* is a new AP that has been created by a working group to address item verification process for QRL-2 procurements. This AP is aiming to be approved in time for the next revision of P840-1 *Quality Assurance for Procurements*.
- The FY 2021 Annual AP Priority List is posted to the COE AP site if you would like to see the revisions being worked this year.

Please enter issues with APs in the SharePoint issues database. Use the live button below, same one that’s found in the upper right of the Processes SharePoint [homepage](#).



#### **DOE TECHNICAL STANDARDS ACTION**

[Tech Stds Program](#) [postings](#) in the past month: none

#### **NATIONAL STANDARDS ACTION**

LANL’s [IHS Eng Workbench](#) online codes & standards subscription news:

Note, for this one, LANL still follows the 2014 edition referenced by the 2015 IBC:

Document number: ACI 318 ERTA

Publication Date: **2/9/2021**

Title: **Building Code Requirements for Structural Concrete (ACI 318-19) Commentary on Building Code Requirements for Structural Concrete (ACI 318R-19)**

Type of Change: **Errata/Erratum**

Document number: IES LIGHTING HDBK ERRATA

Publication Date: **11/23/2015**

Title: **Errata to Lighting Handbook Reference & Application**

Status: **Withdrawn (maybe a newer HDBK supersedes)**

For NFPA 170, IBC-2015 references the 2015 edition so that’s probably alright for the next year or so since brand-new ESM Ch 2 Fire Protection Att 1 – *Adopted Editions of NFPA Fire*

*Protection Codes, Standards, and Recommended Practices* states “Newer editions may be used at the discretion of the engineer of record and with approval of the LANL Fire Protection Group...” and (since not listed by Att 1) a footnote says “...it will be generally expected to use an edition within the same 3–4 year edition range as the standards that are listed...”

Document number: NFPA 170

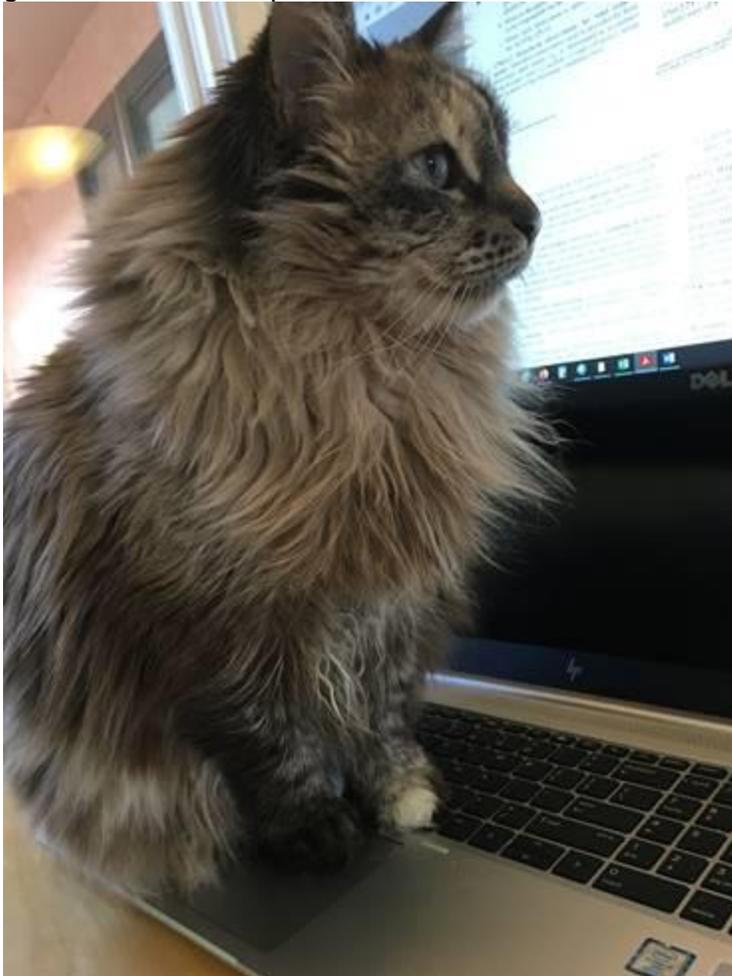
Publication Date: **2021**

Title: **Standard for Fire Safety and Emergency Symbols**

Type of Change: **Complete Revision**

### **WHEN GOOD CONDUCT OF ENGINEERING ISN'T FOLLOWED**

How about letting one's cat keep the VPN active? I'm reaching now—please send me some good bad-CoE examples!



### LAST MONTH'S UPDATE TOPICS

Miss an issue? The archive is at "Monthly Update" on the Standards homepage. Last month's topics:

- **More ES-EPD Org Change**
- **Just in Time for Valentine's**
- **New Form [2276 - Subcontractor Nonconformance Report \(NCR\)](#)**
- **Hilti KB-TZ Post-Installed Concrete Anchors Away**
- **Training & Qualification**
- **LANL Standards Issued in Jan**
- **C Students**
- **Engineering Processes News**
- **O&M Criterion Changes**
- **DOE Technical Standards Action**
- **National Standards Action**
- **When Good Conduct of Engineering Isn't Followed**

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To request a change to this newsletter's distribution, please contact me.

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